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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,572	12/22/2003	Masao Umemoto	0524-0154	7991
7:	590 01/31/2006		EXAMINER	
-	X, MCFARRON, MA & MEHLER, LTD.	GREEN, ANTHONY J		
Suite 2850 200 West Adams St.			ART UNIT	PAPER NUMBER
			1755	
Chicago, IL 6	60606		DATE MAILED: 01/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/743,572	UMEMOTO, MASAO				
	Office Action Summary	Examiner	Art Unit				
		Anthony J. Green	1755				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS OF THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this communication D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
·		action is non-final.					
3)	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	6			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Dispositi	on of Claims						
4) 🖂	Claim(s) 15-18 is/are pending in the application	١.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) 🗌	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) 15-18 is/are rejected.						
7)	Claim(s) is/are objected to.						
8) 🗌	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9) 🗌 '	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the E	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(c	d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 'No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Response to Amendment

This office action is in response to the amendment submitted on 14 November
 Currently claims 15-18 are pending.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 18 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

No literal support can be seen for all of the limitations found in this claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Specification No. 52-052256

The abstract teaches a coolant which consists of 5 to 15 wt.% sodium chloride, 33 to 43 wt.% sodium nitrate, 8 to 18 wt.% ammonium chloride, and balance water.

The instant claims are obvious over the reference. While the reference does not teach the same exact ranges it does teach amounts that overlap or are encompassed by the claimed ranges. One of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by the reference overlap the instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that;

"The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", In re Peterson 65 USPQ2d 1379 (CAFC 2003).

<u>Also, In re Geisler</u> 43 USPQ2d 1365 (Fed. Cir. 1997); <u>In re Woodruff</u>, 16 USPQ2d 1934 (CCPA 1976); <u>In re Malagari</u>, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05.

6. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Specification No. 55-161878.

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The abstract teaches a cooling agent comprising 40-70 parts by weight of urea; 25-50 parts by weight of ammonium chloride and 5-15 parts by weight of potassium chloride which is mixed with water.

The instant claim is obvious over the reference. While the reference does not teach the same exact ranges it does teach amounts that overlap or are encompassed by the claimed ranges. One of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by the reference overlap the instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that;

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<u>Also, In re Geisler</u> 43 USPQ2d 1365 (Fed. Cir. 1997); <u>In re Woodruff</u>, 16 USPQ2d 1934 (CCPA 1976); <u>In re Malagari</u>, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05.

7. Claims 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Specification No. 63-086791.

The reference teaches a non-freezing composition comprising CaCl₂, MgCl₂ and urea blended in specific ratios and which are present in the form of an aqueous solution.

The tables teach examples that comprise various amounts of CaCl₂,and MgCl₂ that fall within the claimed ranges (see for instance examples #6, 17 and 19-21). The composition may be used as a refrigerant etc.

The instant claims are obvious over the reference. While the reference does not teach the same exact ranges it does teach amounts that overlap or are encompassed by the claimed ranges. One of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by the reference overlap the instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that;

"The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", In re Peterson 65 USPQ2d 1379 (CAFC 2003).

Also, In re Geisler 43 USPQ2d 1365 (Fed. Cir. 1997); In re Woodruff, 16 USPQ2d 1934 (CCPA 1976); In re Malagari, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05. As for the properties of the composition (i.e. the melting point) these are believed to be inherent in the compositions of the reference absent evidence showing otherwise.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony J.

Green whose telephone number is 571-272-1367. The examiner can normally be reached on Monday-Thursday 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anthony J. Green Primary Examiner Art Unit 1755

ajg January 09, 2006